

NNN	NNN	IIIIIIIIII	CCCCCCCCCCCC	NNN	NNN	FFFFFFFFFFFFFF
NNN	NNN	IIIIIIIIII	CCCCCCCCCCCC	NNN	NNN	FFFFFFFFFFFFFF
NNN	NNN	IIIIIIIIII	CCCCCCCCCCCC	NNN	NNN	FFFFFFFFFFFFFF
NNN	NNN	III	CCC	NNN	NNN	FFF
NNN	NNN	III	CCC	NNN	NNN	FFF
NNN	NNN	III	CCC	NNN	NNN	FFF
NNNNNN	NNN	III	CCC	NNNNNN	NNN	FFF
NNNNNN	NNN	III	CCC	NNNNNN	NNN	FFF
NNNNNN	NNN	III	CCC	NNNNNN	NNN	FFF
NNN	NNN	III	CCC	NNN	NNN	FFFFFFFFFFFFFF
NNN	NNN	III	CCC	NNN	NNN	FFFFFFFFFFFFFF
NNN	NNN	III	CCC	NNN	NNN	FFFFFFFFFFFFFF
NNN	NNN	III	CCC	NNN	NNN	FFF
NNN	NNN	III	CCC	NNN	NNN	FFF
NNN	NNN	III	CCC	NNN	NNN	FFF
NNN	NNN	III	CCC	NNN	NNN	FFF
NNN	NNN	III	CCC	NNN	NNN	FFF
NNN	NNN	IIIIIIIIII	CCCCCCCCCCCC	NNN	NNN	FFF
NNN	NNN	IIIIIIIIII	CCCCCCCCCCCC	NNN	NNN	FFF
NNN	NNN	IIIIIIIIII	CCCCCCCCCCCC	NNN	NNN	FFF

```
CCCCCCCC  NN      NN  FFFFFFFF  RRRRRRRR  EEEEEEEEE  QQQQQQ  UU      UU  EEEEEEEEE  SSSSSSSS
CCCCCCCC  NN      NN  FFFFFFFF  RRRRRRRR  EEEEEEEEE  QQQQQQ  UU      UU  EEEEEEEEE  SSSSSSSS
CC        NN      NN  FF          RR      RR  EE          QQ      QQ  UU      UU  EE          SS
CC        NN      NN  FF          RR      RR  EE          QQ      QQ  UU      UU  EE          SS
CC        NNNN     NN  FF          RR      RR  EE          QQ      QQ  UU      UU  EE          SS
CC        NNNN     NN  FF          RR      RR  EE          QQ      QQ  UU      UU  EE          SS
CC        NN      NN  FFFFFFFF  RRRRRRRR  EEEEEEEEE  QQ      QQ  UU      UU  EEEEEEEEE  SSSSSS
CC        NN      NN  FFFFFFFF  RRRRRRRR  EEEEEEEEE  QQ      QQ  UU      UU  EEEEEEEEE  SSSSSS
CC        NN      NN  FF          RR      RR  EE          QQ      QQ  UU      UU  EE          SS
CC        NN      NN  FF          RR      RR  EE          QQ      QQ  UU      UU  EE          SS
CC        NN      NN  FF          RR      RR  EE          QQ      QQ  UU      UU  EE          SS
CC        NN      NN  FF          RR      RR  EE          QQ      QQ  UU      UU  EE          SS
CCCCCCCC  NN      NN  FF          RR      RR  EEEEEEEEE  QQQQ  QQ  UUUUUUUUU  EEEEEEEEE  SSSSSSSS
CCCCCCCC  NN      NN  FF          RR      RR  EEEEEEEEE  QQQQ  QQ  UUUUUUUUU  EEEEEEEEE  SSSSSSSS

LL        I I I I I  SSSSSSSS
LL        I I I I I  SSSSSSSS
LL        I I      SS
LL        I I      SS
LL        I I      SS
LL        I I      SS
LL        I I      SSSSSS
LL        I I      SSSSSS
LL        I I      SS
LL        I I      SS
LL        I I      SS
LL        I I      SS
LLLLLLLLLL I I I I I  SSSSSSSS
LLLLLLLLLL I I I I I  SSSSSSSS
```



```
0001 0 %TITLE 'DECnet Ethernet Configurator Module'
0002 0 MODULE CNFREQUES (
0003 0 LANGUAGE (BLISS32),
0004 0 IDENT = 'V04-000'
0005 0 ) =
0006 1 BEGIN
0007 1
0008 1
0009 1 *****
0010 1 *
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0028 1 *
0029 1 *
0030 1 *****
0031 1
0032 1
0033 1 ++
0034 1 FACILITY: DECnet Configurator Module (NICONFIG)
0035 1
0036 1 ABSTRACT:
0037 1
0038 1 This module contains the routines to process incoming requests
0039 1 by parsing them and dispatching to the appropriate routines.
0040 1
0041 1 ENVIRONMENT: VAX/VMS Operating System
0042 1
0043 1 AUTHOR: Bob Grosso, CREATION DATE: 13-Oct-1982
0044 1
0045 1 MODIFIED BY:
0046 1
0047 1 V03-002 RPG0002 Bob Grosso 16-May-1983
0048 1 Correct the argument list to a call to Signal.
0049 1
0050 1 V03-001 RPG0001 Bob Grosso 02-May-1983
0051 1 Check state of UNA.
0052 1 --
```



```
54 0053 1 %SBTTL 'Definitions'
55 0054 1
56 0055 1
57 0056 1 | INCLUDE FILES:
58 0057 1 |
59 0058 1
60 0059 1 LIBRARY 'SYSS$LIBRARY:STARLET'; | VMS common definitions
61 0060 1
62 0061 1 LIBRARY 'SHRLIB$:NET'; | Network definitions
63 0062 1
64 0063 1 LIBRARY 'SHRLIB$:NMALIBRY'; | NICE code definitions
65 0064 1
66 0065 1 REQUIRE 'LIB$:CNFDEF.R32';
67 0156 1
68 0157 1 REQUIRE 'SRCS:CNFPREFIX.REG';
69 0254 1
70 0255 1
71 0256 1 |
72 0257 1 | BUILTIN functions
73 0258 1 |
74 0259 1
75 0260 1 BUILTIN
76 0261 1 | INSQUE, | INSQUE instruction
77 0262 1 | REMQUE; | REMQUE instruction
78 0263 1
79 0264 1
80 0265 1 |
81 0266 1 | TABLE OF CONTENTS:
82 0267 1 |
83 0268 1
84 0269 1 FORWARD ROUTINE
85 0270 1
86 0271 1 CNF$PROCESS REQUEST : NOVALUE, | Jacket routine for Process_request
87 0272 1 PROCESS REQUEST, | Parse NICE and dispatch
88 0273 1 CNF$ENABLE SURVEILLANCE, | Jacket routine for enable surveillance
89 0274 1 ENABLE SURVEILLANCE, | Set-up to prepare for setting surveillance
90 0275 1 SURVEIL, | Begin surveillance of a circuit
91 0276 1 CNF$LOCATE CIR BLK, | Match an ASCII circuit name with a CIR control block
92 0277 1 CNF$DISABLE SURVEILLANCE, | Jacket routine for disable surveillance
93 0278 1 DISABLE SURVEILLANCE, | set-up to prepare to discontinue circuit surveillance
94 0279 1 CNF$DISABLE_SURVEIL; | disabled surveillance of a circuit
95 0280 1
96 0281 1
97 0282 1 |
98 0283 1 |
99 0284 1 | EXTERNAL REFERENCES:
100 0285 1 |
101 0286 1
102 0287 1 EXTERNAL ROUTINE
103 0288 1
104 0289 1
105 0290 1 | Module CNFMAIN
106 0291 1 CNF$EXIT, | Clean up and exit
107 0292 1 CNF$TRACE, | Log messages to log file
108 0293 1 CNF$LOG_DATA, | Log messages to log file
109 0294 1 CNF$GET_ZVM, | Get zeroed virtual memory
110 0295 1 CNF$FREE_VM, | Free virtual memory
```



```
111 0296 1
112 0297 1 ! Module CNFSTORE
113 0298 1
114 0299 1 CNF$READ_SYSIDM, ! Issue QIO to listen on the NI
115 0300 1
116 0301 1 ! Module CNFSHOW
117 0302 1
118 0303 1 CNF$PROCESS_SHOW, ! Show Circuit and system IDs
119 0304 1
120 0305 1 ! Module CNFSEND
121 0306 1
122 0307 1 CNF$BUFR_NICE_MSG,
123 0308 1 CNF$BUFR_ERR_MSG,
124 0309 1 CNF$SEND_NICE_MSG,
125 0310 1
126 0311 1 ! Module CNFWORKQ
127 0312 1
128 0313 1 WKQ$ADD_WORK_ITEM; ! Add work to work queue
129 0314 1
130 0315 1 EXTERNAL ROUTINE
131 0316 1
132 0317 1 STR$COMPARE : ADDRESSING_MODE (GENERAL);
133 0318 1
134 0319 1
135 0320 1 EXTERNAL LITERAL
136 0321 1
137 0322 1 CNF$_CHAN, ! Error assigning or deassigning channel
138 0323 1 CNF$_DRVR$STRT, ! Error while issuing startup command to driver
139 0324 1 CNF$_LOGIC, ! Program logic error or unexpected condition
140 0325 1
141 0326 1 ! From CNFSTORE
142 0327 1 SYSIDM_BUFSIZ,
143 0328 1 ADRTYP_BUFSIZ,
144 0329 1
145 0330 1 CNF$C_SYNCN_EFN,
146 0331 1 CNF$C_ASYNCN_EFN;
147 0332 1
148 0333 1
149 0334 1 EXTERNAL
150 0335 1
151 0336 1 CNF$B_SURVEILLANCE_SET, ! Boolean: mark if anything is under surveillance
152 0337 1 CNF$W_NETCHAN : WORD, ! Channel opened to network
153 0338 1 CNF$G_CIRSURLST : VECTOR [2]; ! List of circuit under surveillance
154 0339 1
155 0340 1 OWN
156 0341 1 SUCCESS NICE DSC :
157 0342 1 BBLOCK [DSC$C_S_BLN] INITIAL
158 0343 1 (
159 0344 1 4,
160 0345 1 UPLIT (
161 0346 1 BYTE (XX'01'),
162 0347 1 WORD (XX'FFFF'),
163 0348 1 BYTE (XX'00')
164 0349 1 )
165 0350 1 );
```

```
167 0351 1 %SBTTL 'cnf$process_request'
168 0352 1 GLOBAL ROUTINE CNF$PROCESS_REQUEST (IRB) : NOVALUE =
169 0353 1
170 0354 1 ++
171 0355 1 FUNCTIONAL DESCRIPTION:
172 0356 1
173 0357 1 This routine is executed off the work queue.
174 0358 1 Parse the NICE message to determine the type of operation,
175 0359 1 and the circuits to be affected. Dispatch to appropriate
176 0360 1 routine if entire message is correct.
177 0361 1
178 0362 1 FORMAL PARAMETERS:
179 0363 1
180 0364 1 irb Interrupt request block, contains all the info for a connection
181 0365 1 to NICONFIG. The IRB contains the NICE command which will
182 0366 1 be parsed.
183 0367 1
184 0368 1 IMPLICIT INPUTS:
185 0369 1 NONE
186 0370 1
187 0371 1 IMPLICIT OUTPUTS:
188 0372 1 NONE
189 0373 1
190 0374 1 ROUTINE VALUE:
191 0375 1 COMPLETION CODES:
192 0376 1 Success
193 0377 1
194 0378 1 SIDE EFFECTS:
195 0379 1 NONE
196 0380 1
197 0381 1 --
198 0382 1
199 0383 2 BEGIN
200 0384 2 LOCAL
201 0385 2 CIRCUIT_DSC : BBLOCK [DSC$C_S_BLN], ! Allocate circuit name descriptor here, whether it will be
202 0386 2 ! or not, it makes book keeping much simpler.
203 0387 2 STATUS;
204 0388 2
205 0389 2 CH$FILL (0, DSC$C_S_BLN, CIRCUIT_DSC); ! Zero the descriptor
206 0390 2 STATUS = PROCESS_REQUEST (.IRB, CIRCUIT_DSC); ! Parse and act upon the command
207 0391 2 IF NOT .STATUS ! If unsuccessful, buffer an error message for retur
208 0392 2 THEN
209 0393 2 CNF$BUFR_ERR_MSG (.IRB, NMA$C_STS_RES, 0, .STATUS, 0);
210 0394 2
211 0395 2 CNF$SEND_NICE_MSG (.IRB); ! Issue QIO's to send NICE messages buffered
212 0396 2
213 0397 2 IF .CIRCUIT_DSC [DSC$W_LENGTH] NEQ 0 ! If a buffer was allocated to the descriptor, retur
214 0398 2 THEN
215 0399 2 CNF$FREE_VM (CIRCUIT_DSC [DSC$W_LENGTH], CIRCUIT_DSC [DSC$A_POINTER]);
216 0400 2
217 0401 2 RETURN TRUE; ! Always return success, errors are sent via QIO bac
218 0402 1 END; ! Routine cnf$process_request
```

```
.TITLE CNFREQUES DECnet Ethernet Configurator Module
.IDENT \V04-000\
```


; Routine Size: 65 bytes, Routine Base: \$CODE\$ + 0000

```
220 0403 1 %SBTTL 'process_request'
221 0404 1 ROUTINE PROCESS_REQUEST (IRB, CIRNAM_DSC) =
222 0405 1
223 0406 1 !++
224 0407 1
225 0408 1 This routine is called by CNF$PROCESS_REQUEST which is
226 0409 1 executed off the work queue.
227 0410 1 Parse the NICE message to determine the type of operation,
228 0411 1 and the circuits to be affected. Dispatch to appropriate
229 0412 1 routine if entire message is correct.
230 0413 1
231 0414 1
232 0415 1 irb Interrupt request block, contains all the info for
233 0416 1 a connection to NICONFIG. The IRB contains the
234 0417 1 NICE command which will be parsed.
235 0418 1
236 0419 1 cirnam_dsc Descriptor for storing of circuit name if one is
237 0420 1 specified in command.
238 0421 1
239 0422 1 !--
240 0423 1
241 0424 2 BEGIN
242 0425 2 MAP
243 0426 2 CIRNAM_DSC : REF BBLOCK [DSC$C_S_BLN],
244 0427 2 IRB : REF BBLOCK; ! Interrupt request block
245 0428 2
246 0429 2 LOCAL
247 0430 2 KNOWN, ! Was KNOWN CIRCUITS present in command
248 0431 2 NICE : REF BBLOCK, ! Pointer into NICE command
249 0432 2 FUNCTION : BBLOCK [1],
250 0433 2 OPTION : BBLOCK [1],
251 0434 2 PROCESSING_SHOW, ! Boolean, true = SHOW, false = SET
252 0435 2 SHOW_INFO, ! Coded for CHAR, SUMMARY or STATUS
253 0436 2 LEN_REMAINING,
254 0437 2 NICE_SURVEILLANCE : REF BBLOCK; ! Locate section of NICE command
255 0438 2 ! containing the SURVEILLANCE parameter
256 0439 2
257 0440 2 BIND
258 0441 2 CONF = UPLIT (%ASCIC 'CONFIGURATOR') : VECTOR [,BYTE];
259 0442 2
260 0443 2 CNF$TRACE (DBG$C_TRACE, $DESCRIPTOR('TRACE'),
261 0444 2 $DESCRIPTOR('process_request'));
262 0445 2
263 0446 2 NICE = IRB [IRB$T_REQUEST]; ! Beginning of NICE command
264 0447 2
265 0448 2 IF .IRB [IRB$W_IOSB1] ! The size of the NICE message was returned in the IOSB
266 0449 2 LSS 18 ! NICE message too short to contain
267 0450 2 THEN ! function, option, and "CONFIGURATOR", and Circuit
268 0451 2 BEGIN
269 0452 2 CNF$BUFR ERR_MSG (.IRB, NMA$C_STS_INV, 0, 0, 0);
270 0453 2 RETURN TRUE;
271 0454 2 END;
272 0455 2
273 0456 2 !
274 0457 2 An Acceptable NICE message must conform with the following
275 0458 2
276 0459 2 Byte 1 Function byte, accept either CHANGE or READ
```



```
277 0460 2 | Byte 2 Option Byte,
278 0461 2 | bits 0-2 contain the entity type. Accept only MODULE
279 0462 2 | For Function READ
280 0463 2 | bits 4-6 indicate summary/status/characteristics
281 0464 2 | For Function CHANGE
282 0465 2 | bit 6 indicates whether set/define or clear/purge
283 0466 2 | bit 7 indicates whether permanent or volatile,
284 0467 2 | accept only volatile
285 0468 2 | Bytes 3-17 Module name ASCII string, "CONFIGURATOR"
286 0469 2 | Bytes 18,19 Code for circuit
287 0470 2 | Byte 20 Code for Known, or count for circuit name
288 0471 2 | Bytes 21-22 or Next two bytes after circuit name:
289 0472 2 | code for surveillance
290 0473 2 | Next byte surveillance code, 0-Enabled, 1-Disabled
291 0474 2 |
292 0475 2 |
293 0476 2 |
294 0477 2 | Check the specified option and accept only SET or SHOW
295 0478 2 |
296 0479 2 | FUNCTION = .NICE [0,0,8,0];
297 0480 2 | OPTION = .NICE [0,8,8,0];
298 0481 2 |
299 0482 2 | IF .OPTION [NMA$V_OPT_PER] ! There is no permanent data base so
300 0483 2 | THEN ! DEFINE, LIST or PURGE not permitted
301 0484 2 | BEGIN
302 0485 2 | CNF$BUFR ERR_MSG (.IRB, NMA$C_STS_FUN, 0, 0, 0);
303 0486 2 | RETURN TRUE;
304 0487 2 | END;
305 0488 2 |
306 0489 2 | IF .FUNCTION EQL NMA$C_FNC_CHA ! If function is CHANGE, accept only SET
307 0490 2 | THEN
308 0491 2 | BEGIN
309 0492 2 | IF .OPTION [NMA$V_OPT_CLE]
310 0493 2 | THEN
311 0494 2 | BEGIN ! CLEAR not permitted
312 0495 2 | CNF$BUFR ERR_MSG (.IRB, NMA$C_STS_FUN, 0, 0, 0);
313 0496 2 | RETURN TRUE;
314 0497 2 | END;
315 0498 2 |
316 0499 2 | PROCESSING_SHOW = FALSE; ! Must be a SET
317 0500 2 | END
318 0501 2 | ELSE
319 0502 2 | BEGIN
320 0503 2 | IF .FUNCTION EQL NMA$C_FNC_REA
321 0504 2 | THEN
322 0505 2 | BEGIN
323 0506 2 | PROCESSING_SHOW = TRUE; ! It's a SHOW
324 0507 2 | SHOW_INFO = .OPTION [NMA$V_OPT_INF]; ! Characteristics, Summary or Status
325 0508 2 | END
326 0509 2 | ELSE ! Only accept SET or SHOW
327 0510 2 | BEGIN
328 0511 2 | CNF$BUFR ERR_MSG (.IRB, NMA$C_STS_FUN, 0, 0, 0);
329 0512 2 | RETURN TRUE;
330 0513 2 | END;
331 0514 2 | END;
332 0515 2 |
333 0516 2 |
```

```
334 0517 2 ! Ensure that MODULE CONFIGURATOR was specified
335 0518 2 !
336 0519 2 IF .OPTION [NMA$V_OPT_ENT] NEQ NMA$C_ENT_MOD
337 0520 2 THEN
338 0521 2 BEGIN
339 0522 2 CNF$BUFR ERR_MSG (.IRB, NMA$C_STS_FUN, 0, 0, 0);
340 0523 2 RETURN TRUE;
341 0524 2 END;
342 0525 2
343 0526 2 IF NOT CH$EQL (.NICE [0,16,8,0], NICE [0,24,8,0], .CONF [0], CONF [1])
344 0527 2 THEN
345 0528 2 BEGIN
346 0529 2 CNF$BUFR ERR_MSG (.IRB, NMA$C_STS_FUN, 0, 0, 0);
347 0530 2 RETURN TRUE;
348 0531 2 END;
349 0532 2
350 0533 2
351 0534 2 Check for CIRCUIT Circuit-name, or for KNOWN CIRCUITS
352 0535 2
353 0536 2
354 0537 2 If .NICE [15,0,16,0] NEQ NMA$C_PCCN_CIR
355 0538 2 THEN
356 0539 2 BEGIN
357 0540 2 CNF$BUFR ERR_MSG (.IRB, NMA$C_STS_IDE, NMA$C_ENT_CIR, 0, 0);
358 0541 2 RETURN TRUE;
359 0542 2 END;
360 0543 2 IF .NICE [16,8,8,1] EQL NMA$C_ENT_KNO
361 0544 2 THEN ! Known circuits
362 0545 2 BEGIN
363 0546 2 KNOWN = TRUE;
364 0547 2 NICE_SURVEILLANCE = NICE [16,16,8,0];
365 0548 2 END
366 0549 2 ELSE ! Parse and store ASCII circuit name
367 0550 2 BEGIN
368 0551 2 LOCAL
369 0552 2 CIRNAM_LEN, ! Use temp store, so that if CNF$GET_ZVM returns a failure,
370 0553 2 CIRCUIT_PTR; ! calling routine won't erroneously attempt to deallocate
371 0554 2
372 0555 2
373 0556 2 KNOWN = FALSE;
374 0557 2 CIRNAM_LEN = .NICE [16,8,8,0];
375 0558 2 EXECUTE (
376 0559 2 CNF$GET_ZVM ( CIRNAM_LEN, CIRNAM_DSC [DSC$A_POINTER]) );
377 0560 2 CIRNAM_DSC [DSC$W_LENGTH] = .CIRNAM_LEN;
378 0561 2 CIRCUIT_PTR = NICE [16,16,8,0];
379 0562 2
380 0563 2
381 0564 2 ! Check the length of the circuit name and ensure that it does
382 0565 2 ! not extend past the end of the NICE message.
383 0566 2
384 0567 2 IF (.CIRCUIT_PTR - .NICE) ! Address of circuit minus start of NICE gives length of NIC
385 0568 2 + .CIRNAM_DSC [DSC$W_LENGTH] ! plus length of circuit name gives length of NICE message u
386 0569 2 GTR .IRB [IRB$W_IOSB1] ! Does circuit name extend off end of NICE message?
387 0570 2 THEN
388 0571 2 BEGIN
389 0572 2 CNF$BUFR ERR_MSG (.IRB, NMA$C_STS_IDE, NMA$C_ENT_CIR, 0, 0);
390 0573 2 RETURN TRUE;
```



```
391 0574 3      END;
392 0575 3
393 0576 3      CH$MOVE ( .CIRNAM_DSC [DSC$W_LENGTH], .CIRCUIT_PTR, .CIRNAM_DSC [DSC$A_POINTER]);
394 0577 3
395 0578 3
396 0579 3      !
397 0580 3      ! Surveillance code and value follows after circuit name
398 0581 3
399 0582 3      NICE_SURVEILLANCE = .CIRCUIT_PTR + .CIRNAM_DSC [DSC$W_LENGTH];
400 0583 3      END;
401 0584 3
402 0585 3      !
403 0586 3      ! Compute length of remaining unparsed NICE message.
404 0587 3
405 0588 3      LEN_REMAINING = .IRB [IRB$W_IOSB1] - (.NICE_SURVEILLANCE - .NICE);
406 0589 3
407 0590 3      !
408 0591 3      ! If SHOW then check that nothing is left unprocessed
409 0592 3
410 0593 3      IF .PROCESSING_SHOW
411 0594 3      THEN
412 0595 3          BEGIN
413 0596 3              IF .LEN_REMAINING NEQ 0
414 0597 3                  THEN
415 0598 3                      BEGIN
416 0599 3                          CNF$BUFR ERR_MSG (.IRB, NMA$C_STS_SIZ, 0, 0, 0);
417 0600 3                          RETURN TRUE;
418 0601 3                      END
419 0602 3                  ELSE
420 0603 3                      EXECUTE (CNF$PROCESS_SHOW (.IRB, .KNOWN, .CIRNAM_DSC, .SHOW_INFO));
421 0604 3                  END
422 0605 3      ELSE
423 0606 3
424 0607 3      !
425 0608 3      ! For SET, check for SURVEILLANCE TYPE (enabled = 0, disabled = 1)
426 0609 3      ! and dispatch to either enable or disable surveillance.
427 0610 3
428 0611 3      BEGIN
429 0612 3      IF .LEN_REMAINING NEQ 0
430 0613 3      THEN
431 0614 3          BEGIN
432 0615 3              IF .LEN_REMAINING NEQ 3
433 0616 3                  THEN
434 0617 3                      BEGIN
435 0618 3                          CNF$BUFR ERR_MSG (.IRB, NMA$C_STS_PMS, NMA$C_PCCN_SUR, 0, 0);
436 0619 3                          RETURN TRUE;
437 0620 3                      END
438 0621 3                  IF .NICE_SURVEILLANCE [0,0,16,0] NEQ NMA$C_PCCN_SUR
439 0622 3                  THEN
440 0623 3                      BEGIN
441 0624 3                          CNF$BUFR ERR_MSG (.IRB, NMA$C_STS_PMS, NMA$C_PCCN_SUR, 0, 0);
442 0625 3                          RETURN TRUE;
443 0626 3                      END
444 0627 3                  IF .NICE_SURVEILLANCE [0,16,8,0] EQL NMA$C_SUR_ENA
445 0628 3                  THEN
446 0629 3                      EXECUTE (CNF_ENABLE_SURVEILLANCE (.IRB, .KNOWN, .CIRNAM_DSC))
447 0630 3
```

```

: 448      0631 4      ELSE
: 449      0632 4      EXECUTE (CNF_DISABLE_SURVEILLANCE (.IRB, .KNOWN, .CIRNAM_DSC));
: 450      0633 4      END
: 451      0634 3      ELSE
: 452      0635 3      EXECUTE (CNF_ENABLE_SURVEILLANCE (.IRB, .KNOWN, .CIRNAM_DSC));
: 453      0636 2      END;
: 454      0637 2
: 455      0638 2      RETURN TRUE;
: 456      0639 1      END;

```

																.PSECT		\$PLITS\$,NOWRT,NOEXE,2	
00	00	52	4F	54	41	52	55	47	49	46	4E	4F	43	0C	00004	P.AAB:	.ASCII	<12>\CONFIGURATOR\<0><0><0>	
														00	00013				
										45	43	41	52	54	00014	P.AAD:	.ASCII	\TRACE\	
															00019		.BLKB	3	
														00000005	0001C	P.AAC:	.LONG	5	
														00000000	00020		.ADDRESS	P.AAD	
74	73	65	75	71	65	72	5F	73	73	65	63	6F	72	70	00024	P.AAF:	.ASCII	\process_request\	
															00033		.BLKB	1	
														0000000F	00034	P.AAE:	.LONG	15	
														00000000	00038		.ADDRESS	P.AAF	
																CONF=		P.AAB	

.PSECT \$CODES,NOWRT,2

OFFC 00000 PROCESS_REQUEST:

OFFC 00000 PROCESS_REQUEST				Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11		
	5E		08 C2 00002		.WORD	: 0404
		0000'	CF 9F 00005		SUBL2	: 0444
		0000'	CF 9F 00009		PUSHAB	: 0443
			01 DD 0000D		PUSHAB	:
0000G	CF		03 FB 0000F		PUSHL	:
	58	04	AC D0 00014		#1	:
	56	65	A8 9E 00018		CALLS	: 0446
	12	0E	A8 B1 0001C		IRB, R8	:
			09 18 00020		MOVAB	: 0449
			7E 7C 00022		14(R8), #18	:
			7E D4 00024		1\$: 0452
	7E		02 CE 00026		CLRQ	:
			45 11 00029		CLRL	:
	53		66 90 0002B	1\$:	-(SP)	:
	52	01	A6 90 0002E		-(SP)	:
			35 19 00032		#2, -(SP)	:
	13		53 91 00034		5\$:
			08 12 00037		MOVAB	: 0479
2C	52		06 E0 00039		(NICE), FUNCTION	:
			5B D4 0003D		1(NICE), OPTION	: 0480
			0D 11 0003F		4\$: 0482
	14		53 91 00041	2\$:	FUNCTION, #19	: 0489
			23 12 00044		2\$:
	5B		01 D0 00046		BBS	: 0492
6E	52		04 EF 00049		#6, OPTION, 4\$: 0499
					PROCESSING_SHOW	: 0489
					3\$: 0503
					FUNCTION, #20	:
					4\$:
					#1, PROCESSING_SHOW	: 0506
					#4, #3, OPTION, SHOW_INFO	: 0507

04	52	03	00	ED	0004E	3\$:	CMPZV	#0, #3, OPTION, #4	0519	
			14	12	00053		BNEQ	4\$		
		51	02	A6	9A	00055	MOVZBL	2(NICE), R1	0526	
		50	0000	CF	9A	00059	MOVZBL	CONF, R0		
50	00	03	A6	51	2D	0005E	CMPC5	R1, 3(NICE), #0, R0, CONF+1		
			0000	CF		00064				
				09	13	00067	BEQL	6\$		
				7E	7C	00069	4\$:	CLRQ	-(SP)	0529
				7E	D4	0006B		CLRL	-(SP)	
		7E		01	CE	0006D	MNEGL	#1, -(SP)		
				7C	11	00070	5\$:	BRB	12\$	
	0064	8F	0F	A6	B1	00072	6\$:	CMPW	15(NICE), #100	0537
				48	12	00078		BNEQ	9\$	
		53	12	A6	9E	0007A		MOVAB	18(R6), R3	0547
	FF	8F	11	A6	91	0007E		CMPB	17(NICE), #-1	0543
				08	12	00083		BNEQ	7\$	
		59		01	D0	00085		MOVL	#1, KNOWN	0546
		5A		53	D0	00088		MOVL	R3, NICE_SURVEILLANCE	0547
				4B	11	0008B		BRB	11\$	0543
				59	D4	0008D	7\$:	CLRL	KNOWN	0556
	04	AE	11	A6	9A	0008F		MOVZBL	17(NICE), CIRNAM_LEN	0557
		52	08	AC	D0	00094		MOVL	CIRNAM_DSC, R2	0559
			04	A2	9F	00098		PUSHAB	4(R2)	
			08	AE	9F	0009B		PUSHAB	CIRNAM_LEN	
	0000G	CF		02	FB	0009E		CALLS	#2, CNF\$GET_ZVM	
		01		50	E8	000A3		BLBS	STATUS, 8\$	
					04	000A6		RET		
	08	BC	04	AE	B0	000A7	8\$:	MOVW	CIRNAM_LEN, @CIRNAM_DSC	0560
		57		53	D0	000AC		MOVL	R3, CIRCUIT_PTR	0561
	50	57		56	C3	000AF		SUBL3	NICE, CIRCUIT_PTR, R0	0567
		51	08	BC	3C	000B3		MOVZWL	@CIRNAM_DSC, R1	0568
		50		51	C0	000B7		ADDL2	R1, R0	
50	0E	A8		00	EC	000BA		CMPV	#0, #16, 14(R8), R0	0569
		10		09	18	000C0		BGEQ	10\$	
				7E	7C	000C2	9\$:	CLRQ	-(SP)	0572
				03	DD	000C4		PUSHL	#3	
		7E		09	CE	000C6		MNEGL	#9, -(SP)	
				4B	11	000C9		BRB	16\$	
	04	B2		BC	28	000CB	10\$:	MOV3	@CIRNAM_DSC, (CIRCUIT_PTR), @4(R2)	0576
		67	08	BC	3C	000D1		MOVZWL	@CIRNAM_DSC, NICE_SURVEILLANCE	0582
		5A		57	C0	000D5		ADDL2	CIRCUIT_PTR, NICE_SURVEILLANCE	
		5A		5A	C2	000D8	11\$:	SUBL2	NICE_SURVEILLANCE, R6	0588
		56		50	A8	000DB		CVTTL	14(R8), LEN REMAINING	
		50	0E	56	C0	000DF		ADDL2	R6, LEN REMAINING	
		50		5B	E9	000E2		BLBC	PROCESSING_SHOW, 14\$	0593
		1A		09	13	000E5		BEQL	13\$	0596
				7E	7C	000E7		CLRQ	-(SP)	0599
				7E	D4	000E9		CLRL	-(SP)	
		7E		04	CE	000EB		MNEGL	#4, -(SP)	
				26	11	000EE	12\$:	BRB	16\$	
				6E	DD	000F0	13\$:	PUSHL	SHOW INFO	0603
			08	AC	DD	000F2		PUSHL	CIRNAM_DSC	
		7E		58	7D	000F5		MOVQ	R8, -(SP)	
	0000G	CF		04	FB	000F8		CALLS	#4, CNF\$PROCESS_SHOW	
				3D	11	000FD		BRB	19\$	
				30	13	000FF	14\$:	BEQL	18\$	0612
		03		50	D1	00101		CMPL	LEN_REMAINING, #3	0615

CNFREQUES
V04-000

DECnet Ethernet Configurator Module
process_request

D 15
16-Sep-1984 02:04:29
14-Sep-1984 12:49:52

VAX-11 Bliss-32 V4.0-742
[NICNF.SRC]CNFREQUES.B32;1

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(4)

006E	8F		07 12 00104	BNEQ	15\$:	
			6A B1 00106	CMPL	(NICE_SURVEILLANCE), #110	:	0621
			12 13 00108	BEQL	17\$:	
	7E	6E	7C 0010D 15\$:	CLRL	-(SP)	:	0624
	7E		8F 9A 0010F	MOVZBL	#110, -(SP)	:	
			1D CE 00113	MNEGL	#29, -(SP)	:	
0000G	CF		58 DD 00116 16\$:	PUSHL	R8	:	
			05 FB 00118	CALLS	#5, CNF\$BUFR_ERR_MSG	:	
			20 11 0011D	BRB	20\$:	0625
		02	AA 95 0011F 17\$:	TSTB	2(NICE_SURVEILLANCE)	:	0628
			0D 13 00122	BEQL	18\$:	
		08	AC DD 00124	PUSHL	CIRNAM_DSC	:	0632
	7E		58 7D 00127	MOVQ	R8, -(SP)	:	
0000V	CF		03 FB 0012A	CALLS	#3, CNF_DISABLE_SURVEILLANCE	:	
			0B 11 0012F	BRB	19\$:	
		08	AC DD 00131 18\$:	PUSHL	CIRNAM_DSC	:	0635
	7E		58 7D 00134	MOVQ	R8, -(SP)	:	
0000V	CF		03 FB 00137	CALLS	#3, CNF_ENABLE_SURVEILLANCE	:	
	03		50 E9 0013C 19\$:	BLBC	STATUS, 21\$:	
	50		01 D0 0013F 20\$:	MOVL	#1, R0	:	0638
			04 00142 21\$:	RET		:	0639

; Routine Size: 323 bytes, Routine Base: \$CODE\$ + 0041


```

: 458      0640 1 %SBTTL 'cnf_enable_surveillance '
: 459      0641 1 ROUTINE CNF_ENABLE_SURVEILLANCE (IRB, KNOWN, CIRCUITNAM_DSC) =
: 460      0642 1
: 461      0643 1 !++
: 462      0644 1
: 463      0645 1 Jacket routine to ensure common error recovery and memory
: 464      0646 1 deallocation for the enabling of surveillance logic.
: 465      0647 1
: 466      0648 1 irb Interrupt request block, containing request context
: 467      0649 1
: 468      0650 1 known If true, then set surveillance for all circuits
: 469      0651 1
: 470      0652 1 circuitnam_dsc Descriptor for name of circuit to set surveillance on.
: 471      0653 1
: 472      0654 1 Always return success, any errors are buffered and then sent to
: 473      0655 1 connectee.
: 474      0656 1 !--
: 475      0657 1
: 476      0658 2 BEGIN
: 477      0659 2 LOCAL
: 478      0660 2 CIRCUIT : REF BBLOCK,
: 479      0661 2 STATUS;
: 480      0662 2 MAP
: 481      0663 2 CIRCUITNAM_DSC : REF BBLOCK;
: 482      0664 2
: 483      0665 2 CNF$TRACE (DBG$C_TRACE, $DESCRIPTOR('TRACE'),
: 484      0666 2 $DESCRIPTOR('cnf_enable_surveillance'));
: 485      0667 2
: 486      0668 2 STATUS = ENABLE_SURVEILLANCE (.IRB, .KNOWN, .CIRCUITNAM_DSC);
: 487      0669 2 IF NOT .STATUS
: 488      0670 2 THEN ! buffer up an error response
: 489      0671 2 CNF$BUFR_ERR_MSG (.IRB, NMA$C_STS_MPR, 0, .STATUS)
: 490      0672 2 ELSE ! Buffer up the 'Success' NICE response
: 491      0673 2 CNF$BUFR_NICE_MSG (.IRB, SUCCESS_NICE_DSC, 0);
: 492      0674 2
: 493      0675 2 !
: 494      0676 2 ! Check to ensure that there is still something under surveillance,
: 495      0677 2 ! otherwise, clear flag so that when execution returns to primary loop
: 496      0678 2 ! in CNFMAIN it will terminate.
: 497      0679 2 !
: 498      0680 2 CNF$B_SURVEILLANCE_SET = FALSE; ! Assume none has been set
: 499      0681 2 CIRCUIT = .CNF$GQ_CIRSURLST; ! first circuit in list
: 500      0682 2 WHILE .CIRCUIT NEQ CNF$GQ_CIRSURLST DO ! For every circuit
: 501      0683 2 BEGIN
: 502      0684 2 IF .CIRCUIT [CIR$B_SURVEIL] EQL NMA$C_SUR_ENA ! If surveillance is enabled
: 503      0685 2 THEN CNF$B_SURVEILLANCE_SET = TRUE; ! Then ensure that image execution will continue
: 504      0686 2 CIRCUIT = .CIRCUIT [CIR$L_LINK]; ! Next circuit in list
: 505      0687 2 END; ! WHILE traversing Circuit linked list
: 506      0688 2
: 507      0689 2 RETURN TRUE;
: 508      0690 1 END; ! Routine cnf_enable_surveillance
```

.PSECT \$PLITS,NOWRT,NOEXE,2

45 43 41 52 54 0003C P.AAH: .ASCII \TRACE\

76 72 75 73 5F 65 6C 62 61 6E 65 5F 66 6E 63 00000005 00041
65 63 6E 61 6C 6C 69 65 00000000 00044 P.AAG: .BLKB 3
00048 P.AAH
0004C P.AAJ: .ADDRESS P.AAH
0005B .ASCII \cnf_enable_surveillance\
00063 .BLKB 1
00064 P.AAI: .LONG 23
00068 .ADDRESS P.AAJ

.PSECT \$CODE\$,NOWRT,2

0000 00000 CNF_ENABLE_SURVEILLANCE:
0000' CF 9F 00002 .WORD Save nothing : 0641
0000' CF 9F 00006 PUSHAB P.AAI : 0666
01 DD 0000A PUSHAB P.AAG : 0665
0000G CF 03 FB 0000C PUSHL #1
7E 08 AC 7D 00011 CALLS #3, CNF\$TRACE
04 AC DD 00015 MOVQ KNOWN, -(SP) : 0668
0000V CF 03 FB 00018 PUSHL IRB
11 50 E8 0001D CALLS #3, ENABLE_SURVEILLANCE
50 DD 00020 BLBS STATUS, 1\$: 0669
7E D4 00022 PUSHL STATUS : 0671
05 CE 00024 CLRL -(SP)
04 AC DD 00027 MNEGL #5, -(SP)
0000G CF 04 FB 0002A PUSHL IRB
0E 11 0002F CALLS #4, CNF\$BUFR_ERR_MSG
7E D4 00031 BRB 2\$: 0673
0000' CF 9F 00033 CLRL -(SP)
04 AC DD 00037 PUSHAB SUCCESS_NICE_DSC
0000G CF 03 FB 0003A PUSHL IRB
51 0000G CF D4 0003F CALLS #3, CNF\$BUFR_NICE_MSG : 0680
50 0000G CF D0 00043 CLRL CNF\$B_SURVEILLANCE_SET : 0681
50 0000G CF 9E 00048 MOVL CNF\$GQ_CIRSURLST, CIRCUIT : 0682
0F 13 00050 MOVAB CNF\$GQ_CIRSURLST, R0
0A A1 95 00052 CMPL CIRCUIT, R0
05 12 00055 BEQL 5\$: 0684
0000G CF 01 D0 00057 TSTB 10(CIRCUIT)
51 61 D0 0005C BNEQ 4\$: 0685
50 E7 11 0005F MOVL #1, CNF\$B_SURVEILLANCE_SET : 0686
01 D0 00061 MOVL (CIRCUIT), CIRCUIT : 0682
04 00064 BRB 3\$: 0689
RET #1, R0 : 0690

; Routine Size: 101 bytes, Routine Base: \$CODE\$ + 0184


```
510 0691 1 %SBTTL 'enable_surveillance'
511 0692 1 ROUTINE ENABLE_SURVEILLANCE (IRB, KNOWN, CIRCUITNAM_DSC) =
512 0693 1
513 0694 1 !++
514 0695 1
515 0696 1 Perform some checking before calling the routine which will
516 0697 1 handle the actual establishing of surveillance on a circuit by
517 0698 1 first determining if the requested circuit is an NI circuit.
518 0699 1 If known was specified, then discover all the NI circuits available.
519 0700 1
520 0701 1 irb Interrupt request block, containing request context
521 0702 1
522 0703 1 known If true, then set surveillance for all circuits
523 0704 1
524 0705 1 circuitnam_dsc Descriptor for name of circuit to set surveillance on.
525 0706 1
526 0707 1 !--
527 0708 2 BEGIN
528 0709 2 MAP
529 0710 2 CIRCUITNAM_DSC : REF BBLOCK;
530 0711 2
531 0712 2 MACRO
532 0713 2 STRINGS_ARE_EQUAL (COMMAND) = NOT (COMMAND)%;
533 0714 2
534 0715 2 LITERAL
535 0716 2 NFB_ARGS = 4,
536 0717 2 NFB$IZ = NFB$C_LENGTH + NFB_ARGS * 4, ! Network function block size
537 0718 2 P2BUFSIZ = 4 + NFB$C_CTX_SIZE,
538 0719 2 P4BUFSIZ = 512;
539 0720 2
540 0721 2 LOCAL
541 0722 2 CIRNAM_DSC : VECTOR [2],
542 0723 2 DEVNAM_DSC : VECTOR [2],
543 0724 2 IOSB : BBLOCK [8], ! IO status block
544 0725 2 NFB : BBLOCK [NFB$IZ], ! Network function block
545 0726 2 ! with 4 optional field ID longwords
546 0727 2 NFB_DESC : VECTOR [2], ! Descriptor of NFB
547 0728 2 PTR,
548 0729 2 P2BUF_DSC : VECTOR [2], ! Descriptor of P2 buffer
549 0730 2 P2BUF : BBLOCK [P2BUFSIZ],
550 0731 2 P4BUF_DSC : VECTOR [2], ! Descriptor of P4 buffer
551 0732 2 P4BUF : BBLOCK [P4BUFSIZ],
552 0733 2 SEARCHING,
553 0734 2 STATUS,
554 0735 2 STATE, ! Store circuit state
555 0736 2 TYPE; ! Store circuit type
556 0737 2
557 0738 2 CNF$TRACE (DBG$C TRACE, $DESCRIPTOR('TRACE'),
558 0739 2 $DESCRIPTOR('enable_surveillance'));
559 0740 2
560 0741 2
561 0742 2 !
562 0743 2 Translate circuit name to physical device name
563 0744 2
564 0745 2 CH$FILL (0, NFB$IZ, NFB);
565 0746 2
566 0747 2 NFB [NFB$B_FCT] = NFB$C_FC_SHOW; ! Set function to SHOW
```



```
567 0748 2 NFB [NFB$B_DATABASE] = NFB$C_DB_CRI;      ! Circuit database
568 0749 2 NFB [NFB$B_OPER] = NFB$C_OP_EQL;          ! Criteria for a match
569 0750 2 NFB [NFB$V_MULT] = TRUE;
570 0751 2 NFB [NFB$L_SRCH_KEY] = NFB$C_WILDCARD;
571 0752 2 NFB [NFB$L_SRCH2_KEY] = NFB$C_WILDCARD;
572 0753 2 NFB [NFB$B_OPER2] = NFB$C_OP_EQL;          ! Criteria for a match
573 0754 2 NFB [NFB$L_FLDID] = NFB$C_CRI_TYP;         ! Circuit type
574 0755 2 NFB [NFB$L_FLDID] + 4 = NFB$C_CRI_STA;     ! Circuit state
575 0756 2 NFB [NFB$L_FLDID] + 8 = NFB$C_CRI_NAM;     ! Circuit name
576 0757 2 NFB [NFB$L_FLDID] + 12 = NFB$C_CRI_VMSNAM; ! Circuit device name
577 0758
578 0759
579 0760 NFB_DESC [0] = NFB$IZ;      ! Set up descriptor for NFB
580 0761 NFB_DESC [1] = NFB;
581 0762
582 0763 P2BUF_DSC [0] = P2BUFSIZ;
583 0764 P2BUF_DSC [1] = P2BUF;
584 0765 CH$FILL (0, P2BUFSIZ, P2BUF);
585 0766 P4BUF_DSC [0] = P4BUFSIZ;
586 0767 P4BUF_DSC [1] = P4BUF;
587 0768
588 0769 SEARCHING = TRUE;          ! If searching for specific
589 0770                                ! circuit, keep calling NETACP
590 0771
591 0772
592 0773 ! Call the NETACP and get a buffer full of circuit names and
593 0774 ! corresponding devices. Keep calling until it returns
594 0775 ! SS$_ENDOFFILE.
595 0776
596 0777 WHILE .SEARCHING DO
597 0778 BEGIN
598 0779
599 0780 CH$FILL (0, P4BUFSIZ, P4BUF);
600 0781
601 P 0782 STATUS = $QIOW ( FUNC = IOS$ ACPCONTROL, ! Obtain circuit name and circuit device name
602 P 0783 CHAN = .CNF$W_NETCHAN, ! Use assigned channel
603 P 0784 EFN = CNF$C_SYNCH_EFN, ! Synchronous Event flag number
604 P 0785 IOSB = IOSB,
605 P 0786 P1 = NFB_DESC, ! Network function block
606 P 0787 P2 = P2BUF_DSC, ! Work space
607 0788 P4 = P4BUF_DSC); ! Buffer for return strings
608 0789
609 0790 IF .STATUS
610 0791 THEN ! successful submission
611 0792 STATUS = .IOSB [0,0,16,0]; ! pick up final status
612 0793
613 0794 IF NOT .STATUS
614 0795 THEN
615 0796 BEGIN
616 0797 IF .STATUS EQL SS$ _ENDOFFILE
617 0798 THEN
618 0799 BEGIN
619 0800 IF NOT .KNOWN
620 0801 THEN
621 0802 BEGIN ! We were looking for a specific circuit and didn't find it.
622 0803 CNF$BUFR_ERR_MSG (.IRB, NMA$C_STS_IDE, NMA$C_ENT_CIR, 0, CIRCUITNAM_DSC);
623 0804 RETURN TRUE;
```



```

: 624      0805 5      END;
: 625      0806 5      SEARCHING = FALSE;      ! That's all she wrote, so quit the loop
: 626      0807 5      EXITLOOP;
: 627      0808 4      END;
: 628      0809 4      SIGNAL (CNF$ LOGIC, 0, .STATUS);      ! Otherwise, there was an error we'd better report
: 629      0810 4      RETURN .STATUS;
: 630      0811 3      END;
: 631      0812 3
: 632      0813 3      PTR = P4BUF;
: 633      0814 3
: 634      0815 3      !
: 635      0816 3      ! Cycle through circuit names returned in P4 buffer and
: 636      0817 3      ! if KNOWN is selection criteria then set surveillance on all NI
: 637      0818 3      ! circuit devices otherwise search for the requested circuit
: 638      0819 3      ! and set surveillance on it if it is an NI circuit.
: 639      0820 3
: 640      0821 3      INCR CIRCUITS FROM 1 TO .P2BUF DO
: 641      0822 3
: 642      0823 4      BEGIN
: 643      0824 4      TYPE = .(.PTR) < 0, 32 >;
: 644      0825 4      PTR = .PTR + 4;
: 645      0826 4
: 646      0827 4      STATE = .(.PTR) < 0, 32 >;      ! Get circuit state
: 647      0828 4      PTR = .PTR + 4;
: 648      0829 4
: 649      0830 4      CIRNAM_DSC [0] = .(.PTR) < 0, 16 >;      ! Length of circuit name
: 650      0831 4      CIRNAM_DSC [1] = (.PTR) < 16, 8 >;      ! Address of start of circuit name
: 651      0832 4
: 652      0833 4      PTR = .PTR + 2 + .CIRNAM_DSC [0];
: 653      0834 4
: 654      0835 4      DEVNAM_DSC [0] = .(.PTR) < 0, 16 >;      ! Length of circuit name
: 655      0836 4      DEVNAM_DSC [1] = (.PTR) < 16, 8 >;      ! Address of start of circuit name
: 656      0837 4
: 657      0838 4      PTR = .PTR + 2 + .DEVNAM_DSC [0];
: 658      0839 4
: 659      0840 4      !
: 660      0841 4      ! Only interested in NI circuits with State ON
: 661      0842 4
: 662      0843 4      IF .TYPE EQL NMA$C_CIRTY_NI AND .STATE EQL NMA$C_STATE_ON
: 663      0844 4      THEN
: 664      0845 4      IF .KNOWN
: 665      0846 4      THEN
: 666      0847 5      BEGIN      ! Set surveillance on all NI circuits
: 667      0848 5      EXECUTE (SURVEIL (CIRNAM_DSC, DEVNAM_DSC));
: 668      0849 5      END
: 669      0850 4      ELSE
: 670      0851 5      BEGIN      ! Looking for a specific circuit
: 671      0852 6      IF STRINGS_EQUAL (STR$COMPARE (.CIRCUITNAM_DSC, CIRNAM_DSC))
: 672      0853 5      THEN
: 673      0854 6      BEGIN
: 674      0855 6      EXECUTE (SURVEIL (CIRNAM_DSC, DEVNAM_DSC));
: 675      0856 6      SEARCHING = FALSE;      ! We got it and can quit now
: 676      0857 6      EXITLOOP;
: 677      0858 5      END;
: 678      0859 4      END;
: 679      0860 3      END;      ! while INCRementing through QIO return buffer
: 680      0861 2      END;      ! WHILE performing QIOs to NETACP
```


:
:
:
681
682
6830862 2
0863 2 RETURN TRUE;
0864 1 END;

! Routine enable_surveillance

```
.PSECT $SPLIT$,NOWRT,NOEXE,2

      45 43 41 52 54 0006C P.AAL: .ASCII \TRACE\
                                00071 .BLKB 3
                                00074 P.AAK: .LONG 5
                                00078 .ADDRESS P.AAL
6C 6C 69 65 76 72 75 73 5F 65 6C 62 61 6E 65 0007C P.AAN: .ASCII \enable_surveillance\
      65 63 6E 61 0008B
                                0008F .BLKB 1
                                00090 P.AAM: .LONG 19
                                00094 .ADDRESS P.AAN

      .EXTRN SYSSQIOW

      .PSECT $CODE$,NOWRT,2

07FC 00000 ENABLE_SURVEILLANCE:
      5E FD6C CE 9E 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10
      0000 CF 9F 00007 MOVAB -660(SP), SP
      0000 CF 9F 0000B PUSHAB P.AAM
      01 DD 0000F PUSHAB P.AAK
      03 FB 00011 PUSHL #1
      00 2C 00016 CALLS #3, CNF$TRACE
      C8 AD 0001B MOVCS #0, (SP), #0, #32, NFB
      C8 22 90 0001D MOVAB #34, NFB
      CA AD 04 B0 00021 MOVW #4, NFB+2
      C9 AD 02 88 00025 BISB2 #2, NFB+1
      CC AD 01 D0 00029 MOVL #1, NFB+4
      D8 AD 04010020 8F D0 0002D MOVL #67174432, NFB+16
      DC AD 04010013 8F D0 00035 MOVL #67174419, NFB+20
      E0 AD 04020041 8F D0 0003D MOVL #67240001, NFB+24
      E4 AD 04020042 8F D0 00045 MOVL #67240002, NFB+28
      C0 AD 20 D0 0004D MOVL #32, NFB_DESC
      C4 AD C8 AD 9E 00051 MOVAB NFB, NFB_DESC+4
      B8 AD 44 8F 9A 00056 MOVZBL #68, P2BUF DSC
      BC AD FF74 CD 9E 0005B MOVAB P2BUF, P2BUF_DSC+4
      0044 8F 00 6E 00 00 2C 00061 MOVCS #0, (SP), #0, #68, P2BUF
      FF74 CD 00068
      FF6C CD 8F 3C 0006B MOVZWL #512, P4BUF DSC
      FF70 CD 6E 9E 00072 MOVAB P4BUF, P4BUF_DSC+4
      58 01 D0 00077 MOVL #1, SEARCHING
      0200 8F 00 5E 58 E9 0007A 1$: BLBC SEARCHING, 4$
      00 2C 0007D MOVCS #0, (SP), #0, #512, P4BUF
      6E 00084
      7E 7C 00085 CLRQ -(SP)
      FF6C CD 9F 00087 PUSHAB P4BUF_DSC
      B8 AD D4 0008B CLRL -(SP)
      C0 AD 9F 0008D PUSHAB P2BUF DSC
      7E 7C 00093 CLRQ NFB_DESC
      7E 7C 00093 CLRQ -(SP)
```


		E8	AD	9F	00095	PUSHAB	IOSB		
			38	DD	00098	PUSHL	#56		
	7E	0000G	CF	3C	0009A	MOVZWL	CNFSW_NETCHAN, -(SP)		
		00000000G	8F	DD	0009F	PUSHL	#CNFSY_SYNCH_EFN		
	00		0C	FB	000A5	CALLS	#12, SYSSQIOQ		
	57		50	D0	000AC	MOVL	RO, STATUS		
	07		57	E9	000AF	BLBC	STATUS, 2\$		0790
	57		AD	3C	000B2	MOVZWL	IOSB, STATUS		0792
	3A		57	E8	000B6	BLBS	STATUS, 6\$		0794
	8F		57	D1	000B9	CMPL	STATUS, #2160		0797
	13		1C	12	000C0	BNEQ	5\$		
			AC	E8	000C2	BLBS	KNOWN, 3\$		0800
	7E		OC	AC	9F	PUSHAB	CIRCUITNAM_DSC		0803
	7E		03	7D	000C9	MOVQ	#3, -(SP)		
			09	CE	000CC	MNEGL	#9, -(SP)		
			04	AC	DD	PUSHL	IRB		
	0000G	CF	05	FB	000D2	CALLS	#5, CNFSBUFR_ERR_MSG		
			02	11	000D7	BRB	4\$		0804
			58	D4	000D9	CLRL	SEARCHING		0806
			008A	31	000DB	BRW	11\$		0799
			57	DD	000DE	PUSHL	STATUS		0809
			7E	D4	000E0	CLRL	-(SP)		
	00000000G	00	8F	DD	000E2	PUSHL	#CNFS_LOGIC		
	50		03	FB	000E8	CALLS	#3, LTBSSIGNAL		
			57	D0	000EF	MOVL	STATUS, RO		0810
				04	000F2	RET			
	56		6E	9E	000F3	MOVAB	P4BUF, PTR		0813
			52	D4	000F6	CLRL	CIRCUITS		0821
			65	11	000F8	BRB	9\$		
	59		86	7D	000FA	MOVQ	(PTR)+, TYPE		0824
	F8		66	3C	000FD	MOVZWL	(PTR), CIRNAM_DSC		0830
	FC		A6	9E	00101	MOVAB	2(R6), CIRNAM_DSC+4		0831
50			AD	C1	00106	ADDL3	CIRNAM_DSC, PTR, RO		0833
	56		A0	9E	0010B	MOVAB	2(RO), PTR		
	F0		66	3C	0010F	MOVZWL	(PTR), DEVNAM_DSC		0835
	F4		A6	9E	00113	MOVAB	2(R6), DEVNAM_DSC+4		0836
50			AD	C1	00118	ADDL3	DEVNAM_DSC, PTR, RO		0838
	56		A0	9E	0011D	MOVAB	2(RO), PTR		
	06		59	D1	00121	CMPL	TYPE, #6		0843
			39	12	00124	BNEQ	9\$		
			5A	D5	00126	TSTL	STATE		
			35	12	00128	BNEQ	9\$		
	0F		AC	E9	0012A	BLBC	KNOWN, 8\$		0845
			AD	9F	0012C	PUSHAB	DEVNAM_DSC		0848
			F0	AD	9F	PUSHAB	CIRNAM_DSC		
	0000V	CF	02	FB	00134	CALLS	#2, SURVEIL		
	23		50	E8	00139	BLBS	STATUS, 9\$		
				04	0013C	RET			
			F8	AD	9F	PUSHAB	CIRNAM_DSC		0852
			OC	AC	DD	PUSHL	CIRCUITNAM_DSC		
	00000000G	00	02	FB	00143	CALLS	#2, STR\$COMPARE		
	12		50	E8	0014A	BLBS	RO, 9\$		0855
			F0	AD	9F	PUSHAB	DEVNAM_DSC		
			F8	AD	9F	PUSHAB	CIRNAM_DSC		
	0000V	CF	02	FB	00153	CALLS	#2, SURVEIL		
	10		50	E9	00158	BLBC	STATUS, 12\$		
			58	D4	0015B	CLRL	SEARCHING		0856

CNFREQUES
V04-000

DECnet Ethernet Configurator Module
enable_surveillance

L 15
16-Sep-1984 02:04:29
14-Sep-1984 12:49:52

VAX-11 Bliss-32 V4.0-742
[NICNF.SRC]CNFREQUES.B32;1

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95	52	FF74	06	11	0015D	BRB	10\$
			CD	F3	0015F	AOBLEQ	P2BUF, CIRCUITS, 7\$
			FF12	31	00165	BRW	1\$
	50		01	D0	00168	MOVL	#1, R0
			04	0016B	12\$:	RET	

: 0854
: 0821
: 0777
: 0863
: 0864

; Routine Size: 364 bytes, Routine Base: \$CODE\$ + 01E9


```

: 685 0865 1 %SBTTL 'surveil Begin surveillance of circuit'
: 686 0866 1 ROUTINE SURVEIL (CIRNAM_DSC, DEVNAM_DSC) =
: 687 0867 1
: 688 0868 1 !++
: 689 0869 1
: 690 0870 1 This is the routine that actually initiates surveillance of a circuit.
: 691 0871 1 Place circuit name and device in circuit list and initiate surveillance.
: 692 0872 1
: 693 0873 1     cirnam_dsc      For checking if this circuit is already in our list
: 694 0874 1                  of circuits that we know about.
: 695 0875 1
: 696 0876 1     devnam_dsc   Physical device name corresponding to the circuit
: 697 0877 1                  for communicating with the driver.
: 698 0878 1
: 699 0879 1 !--
: 700 0880 1
: 701 0881 2 BEGIN
: 702 0882 2 LOCAL
: 703 0883 2     CIR :          REF BBLOCK,
: 704 0884 2     P2_DESC :      BBLOCK [DSC$C_S_BLN],
: 705 0885 2     STATUS;
: 706 0886 2
: 707 0887 2 LITERAL
: 708 0888 2     P2BUFLen = 72,
: 709 0889 2     REMOTE_CONSOLE_PROTOCOL = %X'260';
: 710 0890 2
: 711 0891 2 OWN
: 712 0892 2 |
: 713 0893 2 |     P2 buffer for talking with the device driver
: 714 0894 2 |
: 715 0895 2 P2BUF : BBLOCK [P2BUFLen]
: 716 0896 2     INITIAL (
: 717 0897 2         WORD (NMASC_PCLI_BUS), 64,
: 718 0898 2         WORD (NMASC_PCLI_BFN), 1,
: 719 0899 2         WORD (NMASC_PCLI_PRM), NMASC_STATE_OFF,
: 720 0900 2         WORD (NMASC_PCLI_MLT), NMASC_STATE_OFF,
: 721 0901 2         WORD (NMASC_PCLI_DCH), NMASC_STATE_OFF,
: 722 0902 2         WORD (NMASC_PCLI_CRC), NMASC_STATE_ON,
: 723 0903 2         WORD (NMASC_PCLI_PAD), NMASC_STATE_ON,
: 724 0904 2         WORD (NMASC_PCLI_PTY), REMOTE_CONSOLE_PROTOCOL,
: 725 0905 2         WORD (NMASC_PCLI_CON), NMASC_CINCN_NOR,
: 726 0906 2         WORD (NMASC_PCLI_ACC), NMASC_ACC_SHR,
: 727 0907 2         WORD (NMASC_PCLI_MCA),
: 728 0908 2         WORD (8), WORD (NMASC_LINMC_SET),
: 729 0909 2         BYTE (%X'AB'), BYTE (%X'00'),
: 730 0910 2         BYTE (%X'00'), BYTE (%X'02'),
: 731 0911 2         BYTE (%X'00'), BYTE (%X'00')
: 732 0912 2     );
: 733 0913 2
: 734 0914 2
: 735 0915 2 MAP
: 736 0916 2     CIRNAM_DSC : REF BBLOCK,
: 737 0917 2     DEVNAM_DSC : REF BBLOCK;
: 738 0918 2
: 739 0919 2
: 740 0920 2 CNF$TRACE (DBG$C_TRACE, $DESCRIPTOR('TRACE'),
: 741 0921 2
```

```
742 0922 2      $DESCRIPTOR ('surveil'));
743 0923 2
744 0924 2
745 0925 2      |
746 0926 2      |      Check and see if we already know about this circuit.
747 0927 2      |
748 0928 2      |      IF CNF$LOCATE_CIR_BLK (.CIRNAM_DSC, CIR)
749 0929 2      |      THEN
750 0930 2      |      BEGIN
751 0931 2      |      IF .CIR [CIR$B_SURVEIL] EQL NMA$C_SUR_ENA
752 0932 2      |      THEN RETURN TRUE;
753 0933 2      |      ! Its in our list
754 0934 2      |      ! And surveillance is already set
755 0935 2      |      Else, make sure the buffers were deallocated, since CNF$READ_SYSIDM
756 0936 2      |      will report an error if the buffers are there when it goes to
757 0937 2      |      allocate new ones.
758 0938 2      |      Then skip the circuit block allocation and go to the set up.
759 0939 2      |      IF .CIR [CIR$L_SYSIDMBUF] NEQ 0
760 0940 2      |      THEN
761 0941 2      |      BEGIN
762 0942 2      |      CNF$TRACE (DBG$C_TRACE, $DESCRIPTOR('TRACE *** ERROR'),
763 0943 2      |      $DESCRIPTOR('surveil buffers in place on re-activation'));
764 0944 2      |      EXECUTE (CNF$FREE_VM (%REF(SYSIDM_BUFSIZ), CIR [CIR$L_SYSIDMBUF]));
765 0945 2      |      EXECUTE (CNF$FREE_VM (%REF(ADRTYP_BUFSIZ), CIR [CIR$L_ADRTYPBUF]));
766 0946 2      |      END;
767 0947 2      |      ELSE
768 0948 2      |      |
769 0949 2      |      |      This is the first we've heard of this circuit, so create a
770 0950 2      |      |      control block for it and fill it in.
771 0951 2      |      |
772 0952 2      |      |      BEGIN
773 0953 2      |      |      EXECUTE ( CNF$GET_ZVM ( %REF(CIR$C_LENGTH), CIR));
774 0954 2      |      |      CIR [CIR$W_SIZE] = CIR$C_LENGTH;
775 0955 2      |      |      CIR [CIR$W_CIRNAMLEN] = .CIRNAM_DSC [DSC$W_LENGTH];
776 0956 2      |      |      CH$MOVE ( .CIRNAM_DSC [DSC$W_LENGTH], .CIRNAM_DSC [DSC$A_POINTER],
777 0957 2      |      |      CIR [CIR$T_CIRNAM]);
778 0958 2      |      |      ! Save the name
779 0959 2      |      |      CIR [CIR$W_DEVNAMLEN] = .DEVNAM_DSC [DSC$W_LENGTH];
780 0960 2      |      |      ! Save the device name
781 0961 2      |      |      CH$MOVE ( .DEVNAM_DSC [DSC$W_LENGTH], .DEVNAM_DSC [DSC$A_POINTER],
782 0962 2      |      |      CIR [CIR$T_DEVNAM]);
783 0963 2      |      |
784 0964 2      |      |      |
785 0965 2      |      |      |      Initialize the linked list for holding the system ID messages
786 0966 2      |      |      |      that will be gathered for this circuit.
787 0967 2      |      |      |
788 0968 2      |      |      |      CIR [CIR$L_SIDFLINK] = CIR [CIR$L_SIDFLINK];
789 0969 2      |      |      |      CIR [CIR$L_SIDBLINK] = CIR [CIR$L_SIDFLINK];
790 0970 2      |      |      |
791 0971 2      |      |      |      |
792 0972 2      |      |      |      |      Place in on our list of circuits
793 0973 2      |      |      |      |
794 0974 2      |      |      |      |      INSQUE (.CIR, .CNF$GQ_CIRSURLST [1]);
795 0975 2      |      |      |      |      END;
796 0976 2      |      |      |      |
797 0977 2      |      |      |      |      CIR [CIR$B_SURVEIL] = NMA$C_SUR_ENA;
798 0978 2      |      |      |      |      ! Record that surveillance is enabled
```



```

799      0979      2      |
800      0980      2      | Assign channel to NI driver
801      0981      2      |
802      0982      2      | STATUS = $ASSIGN (CHAN = CIR [CIR$W_CHAN], DEVNAM = .DEVNAM_DSC);
803      0983      2      | IF NOT .STATUS
804      0984      2      | THEN
805      0985      2      | BEGIN
806      0986      2      |     SIGNAL (CNF$ CHAN, 0, .STATUS);
807      0987      2      |     CIR [CIR$B_SORVEIL] = NMASC_SUR_DIS;      ! Record that surveillance is disabled
808      0988      2      |     RETURN .STATUS;
809      0989      2      | END;
810      0990      2      |
811      0991      2      |
812      0992      2      | Get ready to talk to device driver
813      0993      2      |
814      0994      2      | P2_DESC = 0;      ! Zero first longword
815      0995      2      | P2_DESC [DSC$W_LENGTH] = P2BUFLN;      ! Set buffer size
816      0996      2      | P2_DESC [DSC$A_POINTER] = P2BUF;      ! Pointer to buffer
817      0997      2      |
818      0998      2      |
819      0999      2      | Issue startup info to driver so that future reads will get only
820      1000      2      | the system ID messages that are broadcast
821      1001      2      |
822      P 1002      2      | STATUS = $QIOW
823      P 1003      2      | (
824      P 1004      2      |     FUNC = (IOS_SETCHAR OR IOSM_CTRL OR IOSM_STARTUP),
825      P 1005      2      |     CHAN = .CIR [CIR$W_CHAN],
826      P 1006      2      |     EFN = CNF$C_SYNCH_EFN,      ! Synchronous Event flag number
827      P 1007      2      |     IOSB = CIR [CIR$W_IOSB],
828      P 1008      2      |     P2 = P2_DESC
829      1009      2      | );
830      1010      2      |
831      1011      2      | IF NOT .STATUS
832      1012      2      | THEN
833      1013      2      | BEGIN
834      1014      2      |     SIGNAL (CNF$ DRVIRSTRT, 0, .STATUS);
835      1015      2      |     CIR [CIR$B_SORVEIL] = NMASC_SUR_DIS;      ! Record that surveillance is disabled
836      1016      2      |     RETURN .STATUS;
837      1017      2      | END;
838      1018      2      |
839      1019      2      | STATUS = .CIR [CIR$W_IOSB];      ! pick up final status
840      1020      2      | IF NOT .STATUS
841      1021      2      | THEN
842      1022      2      | BEGIN
843      1023      2      |     SIGNAL (CNF$ DRVIRSTRT, 0, .STATUS);
844      1024      2      |     RETURN .STATUS;
845      1025      2      | END;
846      1026      2      |
847      1027      2      |
848      1028      2      |
849      1029      2      | Record the system time when surveillance began since this
850      1030      2      | info is required on a SHOW request.
851      1031      2      |
852      1032      2      | EXECUTE ($GETTIM (TIMADR = CIR [CIR$Q_ELAPSDTIM]) );
853      1033      2      |
854      1034      2      |
855      1035      2      | Issue QIO to device driver to request broadcast messages
```



```
: 856      1036 2      ! and set AST for processing System ID messages as they are read.
: 857      1037 2      !
: 858      1038 2      EXECUTE (CNF$READ_SYSIDM (.CIR));
: 859      1039 2
: 860      1040 2      RETURN TRUE;
: 861      1041 1      END;                                ! Routine surveil
```

```
.PSECT $PLITS$,NOWRT,NOEXE,2

      45 43 41 52 54 00098 P.AAP: .ASCII \TRACE\
      0009D .BLKB 3
      00000005 000A0 P.AAO: .LONG 5
      00000000 000A4 .ADDRESS P.AAP
      6C 69 65 76 72 75 73 000A8 P.AAR: .ASCII \surveil\
      000AF .BLKB 1
      00000007 000B0 P.AAQ: .LONG 7
      00000000 000B4 .ADDRESS P.AAR
52 4F 52 52 45 20 2A 2A 2A 20 45 43 41 52 54 000B8 P.AAT: .ASCII \TRACE *** ERROR\
      000C7 .BLKB 1
      0000000F 000C8 P.AAS: .LONG 15
      00000000 000CC .ADDRESS P.AAT
72 65 66 66 75 62 20 20 6C 69 65 76 72 75 73 000D0 P.AAV: .ASCII \surveil buffers in place on re-activati\
72 20 6E 6F 20 65 63 61 6C 70 20 6E 69 20 73 000DF
      69 74 61 76 69 74 63 61 2D 65 000EE
      6E 6F 000F8
      0000002A 000FC P.AAU: .ASCII \on\
      00000000 00100 .BLKB 2
      .LONG 42
      .ADDRESS P.AAV

.PSECT $OWNS$,NOEXE,2

      0AF1 00008 P2BUF: .WORD 2801
      0000C040 0000A .LONG 64
      0451 0000E .WORD 1105
      00000001 00010 .LONG 1
      0B18 00014 .WORD 2840
      00000001 00016 .LONG 1
      0B19 0001A .WORD 2841
      00000001 0001C .LONG 1
      0B1B 00020 .WORD 2843
      00000001 00022 .LONG 1
      0B1C 00026 .WORD 2844
      00000000 00028 .LONG 0
      0B1A 0002C .WORD 2842
      00000000 0002E .LONG 0
      0B0E 00032 .WORD 2830
      00000260 00034 .LONG 608
      0456 00038 .WORD 1110
      0C000000 0003A .LONG 0
      0B1E 0003E .WORD 2846
      00000001 00040 .LONG 1
      0B0F 00044 .WORD 2831
      0008 00046 .WORD 8
      0001 00048 .WORD 1
      AB 0004A .BYTE -85
```


			00	0004B	.BYTE	0		
			00	0004C	.BYTE	0		
			02	0004D	.BYTE	2		
			00	0004E	.BYTE	0		
			00	0004F	.BYTE	0		
					.EXTRN	SYSS\$ASSIGN, SYSS\$GETTIM		
					.PSECT	\$CODE\$,NOWRT,2		
			01FC	00000	SURVEIL: .WORD	Save R2,R3,R4,R5,R6,R7,R8		0866
58	00000000G		00	9E 00002	MOVAB	LIB\$SIGNAL, R8		
57	00000000G		8F	D0 00009	MOVL	#CNF\$ DRVR\$TRT, R7		
5E			10	C2 00010	SUBL2	#16, SP		
	0000'		CF	9F 00013	PUSHAB	P.AAQ		0922
	0000'		CF	9F 00017	PUSHAB	P.AAO		0921
			01	DD 0001B	PUSHL	#1		
0000G	CF		03	FB 0001D	CALLS	#3, CNF\$TRACE		
	04		AE	9F 00022	PUSHAB	CIR		0927
53	04		AC	D0 00025	MOVL	CIRNAM_DSC, R3		
			53	DD 00029	PUSHL	R3		
0000V	CF		02	FB 0002B	CALLS	#2, CNF\$LOCATE_CIR_BLK		
	50		50	E9 00030	BLBC	R0, 3\$		
	52		04	AE D0 00033	MOVL	CIR, R2		0930
			0A	A2 95 00037	TSTB	10(R2)		
			03	12 0003A	BNEQ	1\$		
			0122	31 0003C	BRW	12\$		
			38	A2 D5 0003F	TSTL	56(R2)		0938
			03	12 00042	BNEQ	2\$		
			0080	31 00044	BRW	6\$		
	0000'		CF	9F 00047	PUSHAB	P.AAU		0942
	0000'		CF	9F 0004B	PUSHAB	P.AAS		0941
			01	DD 0004F	PUSHL	#1		
0000G	CF		03	FB 00051	CALLS	#3, CNF\$TRACE		
			38	A2 9F 00056	PUSHAB	56(R2)		0943
04	AE	00000000G	8F	D0 00059	MOVL	#SYSIDM_BUFSIZ, 4(SP)		
			04	AE 9F 00061	PUSHAB	4(SP)		
0000G	CF		02	FB 00064	CALLS	#2, CNF\$FREE_VM		
	27		50	E9 00069	BLBC	STATUS, 4\$		
			3C	A2 9F 0006C	PUSHAB	60(R2)		0944
04	AE	00000000G	8F	D0 0006F	MOVL	#ADRTYP_BUFSIZ, 4(SP)		
			04	AE 9F 00077	PUSHAB	4(SP)		
0000G	CF		02	FB 0007A	CALLS	#2, CNF\$FREE_VM		
	45		50	E8 0007F	BLBS	STATUS, 6\$		
			04	00082	RET			
			04	AE 9F 00083	PUSHAB	CIR		0953
04	AE		8F	9A 00086	MOVZBL	#72, 4(SP)		
			04	AE 9F 0008B	PUSHAB	4(SP)		
0000G	CF		02	FB 0008E	CALLS	#2, CNF\$GET_ZVM		
	01		50	E8 00093	BLBS	STATUS, 5\$		
			04	00096	RET			
	56		04	AE D0 00097	MOVL	CIR, R6		0955
08	A6		48	8F 9B 0009B	MOVZBW	#72, 8(R6)		
16	A6		63	B0 000A0	MOVW	(R3), 22(R6)		0957
04	B3		63	28 000A4	MOVW	(R3), 24(R3), 24(R6)		0959
	50		08	AC D0 000AA	MOVL	DEVNAM_DSC, R0		0960
28	A6		60	B0 000AE	MOVW	(R0), 40(R6)		

2A	A6	04	B0	60	28	000B2	MOV C3	(R0), 24(R0), 42(R6)	: 0962
		40	A6	40	A6	9E 000B8	MOV AB	64(R6), 64(R6)	: 0968
		44	A6	40	A6	9E 000BD	MOV AB	64(R6), 68(R6)	: 0969
		0000G	DF	66	0E	000C2	INSQUE	(R6), @CNF\$GQ_CIRSURLST+4	: 0974
			52	04	AE	D0 000C7	6\$: MOVL	CIR, R2	: 0977
				0A	A2	94 000CB	CLRB	10(R2)	: 0982
					7E	7C 000CE	CLRQ	-(SP)	: 0982
				14	A2	9F 000D0	PUSH AB	20(R2)	: 0982
				08	AC	DD 000D3	PUSHL	DEVNAM DSC	: 0982
		00000000G	00	04	FB	000D6	CALLS	#4, SY\$SASSIGN	: 0982
			53	50	D0	000DD	MOVL	R0, STATUS	: 0982
			0C	53	E8	000E0	BLBS	STATUS, 7\$: 0983
				53	DD	000E3	PUSHL	STATUS	: 0986
				7E	D4	000E5	CLRL	-(SP)	: 0986
				00000000G	8F	DD 000E7	PUSHL	#CNF\$_CHAN	: 0986
				3E	11	000ED	BRB	8\$: 0986
				08	AE	D4 000EF	7\$: CLRL	P2_DESC	: 0994
		08	AE	48	8F	9B 000F2	MOVZBW	#72, P2_DESC	: 0995
		0C	AE	0000'	CF	9E 000F7	MOV AB	P2BUF, P2_DESC+4	: 0996
				7E	7C	000FD	CLRQ	-(SP)	: 1009
				7E	7C	000FF	CLRQ	-(SP)	: 1009
				18	AE	9F 00101	PUSH AB	P2_DESC	: 1009
				7E	7C	00104	CLRQ	-(SP)	: 1009
				7E	D4	00106	CLRL	-(SP)	: 1009
				0C	A2	9F 00108	PUSH AB	12(R2)	: 1009
			7E	8F	3C	0010B	MOVZWL	#602, -(SP)	: 1009
			7E	A2	32	00110	CVTWL	20(R2), -(SP)	: 1009
				00000000G	8F	DD 00114	PUSHL	#CNF\$C SYNCH EFN	: 1009
		00000000G	00	0C	FB	0011A	CALLS	#12, SY\$SQIOQ	: 1009
			53	50	D0	00121	MOVL	R0, STATUS	: 1011
			0F	53	E8	00124	BLBS	STATUS, 9\$: 1014
				53	DD	00127	PUSHL	STATUS	: 1014
				7E	D4	00129	CLRL	-(SP)	: 1014
				57	DD	0012B	PUSHL	R7	: 1014
				03	FB	0012D	8\$: CALLS	#3, LIB\$SIGNAL	: 1015
		0A	68	01	90	00130	MOVB	#1, 10(R2)	: 1016
				10	11	00134	BRB	10\$: 1019
				A2	32	00136	9\$: CVTWL	12(R2), STATUS	: 1019
			53	53	E8	0013A	BLBS	STATUS, 11\$: 1020
			0D	53	DD	0013D	PUSHL	STATUS	: 1023
				7E	D4	0013F	CLRL	-(SP)	: 1023
				57	DD	00141	PUSHL	R7	: 1023
			68	03	FB	00143	CALLS	#3, LIB\$SIGNAL	: 1024
			50	53	D0	00146	10\$: MOVL	STATUS, R0	: 1024
				04	00149		RET		: 1032
				30	A2	9F 0014A	11\$: PUSH AB	48(R2)	: 1032
		00000000G	00	01	FB	0014D	CALLS	#1, SY\$GETTIM	: 1032
			0D	50	E9	00154	BLBC	STATUS, 13\$: 1038
				52	DD	00157	PUSHL	R2	: 1038
		0000G	CF	01	FB	00159	CALLS	#1, CNF\$READ_SYSIDM	: 1038
			03	50	E9	0015E	BLBC	STATUS, 13\$: 1040
			50	01	D0	00161	12\$: MOVL	#1, R0	: 1040
				04	00164		13\$: RET		: 1041

; Routine Size: 357 bytes, Routine Base: \$CODE\$ + 0355


```

: 863      1042 1 %SBTTL 'CNF$LOCATE_CIR_BLK Locate and return circuit block'
: 864      1043 1 GLOBAL ROUTINE CNF$LOCATE_CIR_BLK (CIRNAMDSC, CIRBLK) =
: 865      1044 1
: 866      1045 1 ++
: 867      1046 1 FUNCTIONAL DESCRIPTION:
: 868      1047 1
: 869      1048 1 Using the descriptor of the ASCII circuit name, search the
: 870      1049 1 linked list of circuit blocks to determine the address of
: 871      1050 1 the circuit block for the requested circuit name. If block
: 872      1051 1 is not present, return false, else return true.
: 873      1052 1
: 874      1053 1 FORMAL PARAMETERS:
: 875      1054 1
: 876      1055 1     cirnamdsc      Descriptor of circuit name
: 877      1056 1
: 878      1057 1     cirblk      Address of longword in which to return the
: 879      1058 1 address of the circuit block if it is located
: 880      1059 1
: 881      1060 1 IMPLICIT INPUTS:
: 882      1061 1     cnf$gq_cirsurlst      List of circuits
: 883      1062 1
: 884      1063 1 ROUTINE VALUE:
: 885      1064 1
: 886      1065 1     True      Circuit block was found and address was returned in
: 887      1066 1     cirblk.
: 888      1067 1
: 889      1068 1     False     Circuit block was not found
: 890      1069 1 --
: 891      1070 1
: 892      1071 2 BEGIN
: 893      1072 2 LOCAL
: 894      1073 2     CIRCUIT :      REF BBLOCK;
: 895      1074 2 MAP
: 896      1075 2     CIRNAMDSC :      REF BBLOCK;
: 897      1076 2
: 898      1077 2     CIRCUIT = .CNF$GQ_CIRSURLST;      ! First circuit in list
: 899      1078 2 WHILE .CIRCUIT NEQ CNF$GQ_CIRSURLST DO ! For all circuits in list
: 900      1079 3 BEGIN
: 901      1080 3     IF CH$EQL (.CIRCUIT [CIR$W_CIRNAMELEN], CIRCUIT [CIR$T_CIRNAM],
: 902      1081 3         .CIRNAMDSC [DSC$W_LENGTH], .CIRNAMDSC [DSC$A_POINTER])
: 903      1082 3     THEN
: 904      1083 4         BEGIN
: 905      1084 4             .CIRBLK = .CIRCUIT;      ! Return address of matching block
: 906      1085 4             RETURN TRUE;
: 907      1086 4         END
: 908      1087 3     ELSE
: 909      1088 3         CIRCUIT = .CIRCUIT [CIR$L_LINK]; ! Get next block
: 910      1089 2     END;      ! WHILE traversing Circuit linked list
: 911      1090 2
: 912      1091 2 RETURN FALSE;
: 913      1092 1 END;      ! Routine CNF$LOCATE_CIR_BLK
```

CNFREQUES
V04-000

DECnet Ethernet Configurator Module
CNF\$LOCATE_CIR_BLK Locate and return circuit

G 16
16-Sep-1984 02:04:29
14-Sep-1984 12:49:52

VAX-11 Bliss-32 V4.0-742
[NICNF.SRC]CNFREQUES.B32;1

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				54	0000G	CF	D0	00002		MOVL	CNF\$GQ_CIRSURLST, CIRCUIT	:	1077
				55	04	AC	D0	00007		MOVL	CIRNAMDSC, R5	:	1081
				50	0000G	CF	9E	0000B	1\$:	MOVAB	CNF\$GQ_CIRSURLST, R0	:	1078
				50		54	D1	00010		CMPL	CIRCUIT, R0	:	
						19	13	00013		BEQL	3\$:	
04	BC	00	18	A4	16	A4	2D	00015		CMPCS	22(CIRCUIT), 24(CIRCUIT), #0, @CIRNAMDSC, -	:	1080
					04	B5		0001D			@4(R5)	:	
						08	12	0001F		BNEQ	2\$:	
		08	BC			54	D0	00021		MOVL	CIRCUIT, @CIRBLK	:	1084
				50		01	D0	00025		MOVL	#1, R0	:	1085
							04	00028		RET		:	
				54		64	D0	00029	2\$:	MOVL	(CIRCUIT), CIRCUIT	:	1088
						DD	11	0002C		BRB	1\$:	1078
						50	D4	0002E	3\$:	CLRL	R0	:	1091
							04	00030		RET		:	1092

; Routine Size: 49 bytes, Routine Base: \$CODE\$ + 04BA


```

915 1093 1 %SBTTL 'cnf_disable_surveillance '
916 1094 1 ROUTINE CNF_DISABLE_SURVEILLANCE (IRB, KNOWN, CIRCUITNAM_DSC) =
917 1095 1
918 1096 1 !++
919 1097 1
920 1098 1 Jacket routine to ensure common error recovery and memory
921 1099 1 deallocation for the disabling of surveillance logic.
922 1100 1
923 1101 1 irb Interrupt request block, containing request context
924 1102 1
925 1103 1 known If true, then clear surveillance for all circuits
926 1104 1
927 1105 1 circuitnam_dsc Descriptor for name of circuit to clear surveillance on.
928 1106 1
929 1107 1 Always return success, any errors are buffered and then sent to
930 1108 1 connectee.
931 1109 1 !--
932 1110 1
933 1111 2 BEGIN
934 1112 2 MAP
935 1113 2 CIRCUITNAM_DSC : REF BBLOCK;
936 1114 2 LOCAL
937 1115 2 CIRCUIT : REF BBLOCK,
938 1116 2 STATUS;
939 1117 2
940 1118 2 CNF$TRACE (DBG$C TRACE, $DESCRIPTOR('TRACE'),
941 1119 2 $DESCRIPTOR('cnf_disable_surveillance'));
942 1120 2
943 1121 2 STATUS = DISABLE_SURVEILLANCE (.IRB, .KNOWN, .CIRCUITNAM_DSC);
944 1122 2 IF NOT .STATUS
945 1123 2 THEN
946 1124 2 CNF$BUFR_ERR_MSG (.IRB, NMA$C_STS_MPR, 0, .STATUS)
947 1125 2 ELSE
948 1126 2 CNF$BUFR_NICE_MSG (.IRB, SUCCESS_NICE_DSC, 0);
949 1127 2
950 1128 2 !
951 1129 2 Check to ensure that there is still something under surveillance,
952 1130 2 otherwise, clear flag so that when execution returns to primary loop
953 1131 2 in CNFMAIN it will terminate.
954 1132 2 !
955 1133 2 CNF$B SURVEILLANCE SET = FALSE;
956 1134 2 CIRCUIT = .CNF$GQ CIRSURLST;
957 1135 2 WHILE .CIRCUIT NEQ CNF$GQ_CIRSURLST DO
958 1136 2 BEGIN
959 1137 2 IF .CIRCUIT [CIR$B SURVEIL] EQL NMA$C_SUR_ENA
960 1138 2 THEN CNF$B SURVEILLANCE SET = TRUE;
961 1139 2 CIRCUIT = .CIRCUIT [CIR$L LINK];
962 1140 2 END; ! WHILE traversing Circuit linked list
963 1141 2
964 1142 2 RETURN TRUE;
965 1143 1 END; ! Routine cnf_disable_surveillance
```

.PSECT \$SPLIT\$,NOWRT,NOEXE,2

45 43 41 52 54 00104 P.AAX: .ASCII \TRACE\

;

72 75 73 5F 65 6C 62 61 73 69 64 5F 66 6E 63 65 63 6E 61 6C 6C 69 65 76 00000005 00109
00000000 0010C P.AAW: .BLKB 3
00000000 00110 .LONG 5
00000018 00114 P.AAZ: .ADDRESS P.AAX
00000000 00123 .ASCII \cnf_disable_surveillance\
00000000 0012C P.AAY: .LONG 24
00000000 00130 .ADDRESS P.AAZ

.PSECT \$CODE\$,NOWRT,2

0000 00000 CNF_DISABLE_SURVEILLANCE:
0000' CF 9F 00002 .WORD Save nothing : 1094
0000' CF 9F 00006 PUSHAB P.AAY : 1119
01 DD 0000A PUSHAB P.AAW : 1118
03 FB 0000C PUSHL #1 :
0000G CF 08 AC 7D 00011 CALLS #3, CNF\$TRACE :
04 AC DD 00015 MOVQ KNOWN, -(SP) : 1121
0000V CF 03 FB 00018 CALLS #3, DISABLE_SURVEILLANCE :
11 50 E8 0001D BLBS STATUS, 1\$: 1122
50 DD 00020 PUSHL STATUS : 1124
7E D4 00022 CLRL -(SP) :
05 CE 00024 MNEGL #5, -(SP) :
04 AC DD 00027 PUSHL IRB :
0000G CF 04 FB 0002A CALLS #4, CNF\$BUFR_ERR_MSG :
0E 11 0002F BRB 2\$:
7E D4 00031 1\$: CLRL -(SP) : 1126
0000' CF 9F 00033 PUSHAB SUCCESS_NICE_DSC :
04 AC DD 00037 PUSHL IRB :
0000G CF 03 FB 0003A CALLS #3, CNF\$BUFR_NICE_MSG :
0000G CF D4 0003F 2\$: CLRL CNF\$B_SURVEILLANCE_SET : 1133
51 0000G CF D0 00043 MOVL CNF\$GQ_CIRSURLST, CIRCUIT : 1134
50 0000G CF 9F 00048 3\$: MOVAB CNF\$GQ_CIRSURLST, R0 : 1135
51 D1 0004D CMPL CIRCUIT, R0 :
0F 13 00050 BEQL 5\$:
0A A1 95 00052 TSTB 10(CIRCUIT) : 1137
05 12 00055 BNEQ 4\$:
0000G CF 01 D0 00057 MOVL #1, CNF\$B_SURVEILLANCE_SET : 1138
51 61 D0 0005C 4\$: MOVL (CIRCUIT), CIRCUIT : 1139
E7 11 0005F BRB 3\$: 1135
50 01 D0 00061 5\$: MOVL #1, R0 : 1142
04 00064 RET : 1143

; Routine Size: 101 bytes, Routine Base: \$CODE\$ + 04EB


```
: 967      1144 1 %SBTTL 'disable_surveillance'
: 968      1145 1 ROUTINE DISABLE_SURVEILLANCE (IRB, KNOWN, CIRCUITNAM_DSC) =
: 969      1146 1 ++
: 970      1147 1
: 971      1148 1 Perform some checking before calling the routine which will
: 972      1149 1 handle the actual disabling of surveillance on a circuit by
: 973      1150 1 first determining if the requested circuit has surveillance set.
: 974      1151 1 If known was specified, then discover all the NI circuits available.
: 975      1152 1
: 976      1153 1     irb             Interrupt request block, containing request context
: 977      1154 1
: 978      1155 1     known          If true, then clear surveillance for all circuits
: 979      1156 1
: 980      1157 1     circuitnam_dsc  For checking if this circuit is in our list
: 981      1158 1 of circuits.
: 982      1159 1 --
: 983      1160 2 BEGIN
: 984      1161 2 LOCAL
: 985      1162 2     CIRCUIT :      REF BBLOCK;
: 986      1163 2 MAP
: 987      1164 2     CIRCUITNAM_DSC : REF BBLOCK;
: 988      1165 2
: 989      1166 2 CNF$TRACE (DBG$C_TRACE, $DESCRIPTOR('TRACE'),
: 990      1167 2     $DESCRIPTOR('disable_surveillance'));
: 991      1168 2
: 992      1169 2 IF .KNOWN
: 993      1170 2 THEN
: 994      1171 2 |
: 995      1172 2 |     For every circuit in the list, disable surveillance
: 996      1173 2 |
: 997      1174 2 | BEGIN
: 998      1175 2 | CIRCUIT = .CNF$GQ_CIRSURLST;
: 999      1176 2 | WHILE .CIRCUIT NEQ CNF$GQ_CIRSURLST DO
: 1000     1177 2 | BEGIN
: 1001     1178 2 | EXECUTE (CNF$DISABLE_SURVEIL (.CIRCUIT));
: 1002     1179 2 | CIRCUIT = .CIRCUIT [CIRSL_LINK];
: 1003     1180 2 | END;
: 1004     1181 2 | ! WHILE traversing circuit linked list
: 1005     1182 2 | END
: 1006     1183 2 ELSE
: 1007     1184 2 |
: 1008     1185 2 |     If the circuit is in our list, then disable surveillance,
: 1009     1186 2 |     otherwise buffer an error for return to connectee.
: 1010     1187 2 |
: 1011     1188 2 | BEGIN
: 1012     1189 2 | IF CNF$LOCATE_CIR_BLK (.CIRCUITNAM_DSC, CIRCUIT)
: 1013     1190 2 | THEN
: 1014     1191 2 | EXECUTE (CNF$DISABLE_SURVEIL (.CIRCUIT))
: 1015     1192 2 | ELSE
: 1016     1193 2 | BEGIN
: 1017     1194 2 |     ! This circuit not in data base
: 1018     1195 2 |     CNF$BUFR_ERR_MSG (.IRB, NMASC_STS_IDE, NMASC_ENT_CIR, 0,
: 1019     1196 2 |     .CIRCUITNAM_DSC);
: 1020     1197 2 |     RETURN TRUE;
: 1021     1198 2 | END;
: 1022     1199 2 END;
: 1023     1200 1 RETURN TRUE;
: 1023     1200 1 END;
: 1023     1200 1 ! Routine disable_surveillance
```



```

                                .PSECT $SPLITS$,NOWRT,NOEXE,2
                                45 43 41 52 54 00134 P.ABB: .ASCII \TRACE\
                                00139 .BLKB 3
                                00000005 0013C P.ABA: .LONG 5
                                00000000 00140 .ADDRESS P.ABB
6C 69 65 76 72 75 73 5F 65 6C 62 61 73 69 64 00144 P.ABD: .ASCII \disable_surveillance\
65 63 6E 61 6C 00153
                                00000014 00158 P.ABC: .LONG 20
                                00000000 0015C .ADDRESS P.ABD

                                .PSECT $CODES$,NOWRT,2
                                0000 00000 DISABLE_SURVEILLANCE:
                                .WORD Save nothing
                                5E 04 C2 00002 .SUBL2 #4, SP
                                0000 0000 0000 00005 .PUSHAB P.ABC
                                0000 0000 0000 00009 .PUSHAB P.ABA
                                01 DD 0000D .PUSHL #1
                                0000G CF 03 FB 0000F .CALLS #3, CNF$TRACE
                                1D 08 AC E9 00014 .BLBC KNOWN, 2$
                                6E 0000G CF D0 00018 .MOVL CNF$GQ_CIRSURLST, CIRCUIT
                                50 0000G CF 9E 0001D 1$: .MOVAB CNF$GQ_CIRSURLST, R0
                                50 6E D1 00022 .CMPL CIRCUIT, R0
                                37 13 00025 .BEQL 4$
                                6E DD 00027 .PUSHL CIRCUIT
                                0000V CF 01 FB 00029 .CALLS #1, CNF$DISABLE_SURVEIL
                                30 50 E9 0002E .BLBC STATUS, 5$
                                9E DD 00031 .PUSHL @CIRCUIT
                                E8 11 00033 .BRB 1$
                                5E DD 00035 2$: .PUSHL SP
                                FF2B CF 0C AC DD 00037 .PUSHL CIRCUITNAM_DSC
                                0B 02 FB 0003A .CALLS #2, CNF$LOCATE_CIR_BLK
                                50 E9 0003F .BLBC R0, 3$
                                0000V CF 6E DD 00042 .PUSHL CIRCUIT
                                12 01 FB 00044 .CALLS #1, CNF$DISABLE_SURVEIL
                                50 E8 00049 .BLBS STATUS, 4$
                                04 0004C .RET
                                0C AC DD 0004D 3$: .PUSHL CIRCUITNAM_DSC
                                7E 03 7D 00050 .MOVQ #3, -(SP)
                                7E 09 CE 00053 .MNEGL #9, -(SP)
                                04 AC DD 00056 .PUSHL IRB
                                0000G CF 05 FB 00059 .CALLS #5, CNF$BUFR_ERR_MSG
                                50 01 D0 0005E 4$: .MOVL #1, R0
                                04 00061 5$: .RET

```

; Routine Size: 98 bytes, Routine Base: \$CODE\$ + 0550


```
1025 1201 1 %SBTTL 'CNF$DISABLE_SURVEIL: clean up circuit block entry and quit surveillance'
1026 1202 1 GLOBAL ROUTINE CNF$DISABLE_SURVEIL (CIR) =
1027 1203 1
1028 1204 1 !++
1029 1205 1 FUNCTIONAL DESCRIPTION:
1030 1206 1
1031 1207 1 This is the routine that actually terminates surveillance of a circuit.
1032 1208 1
1033 1209 1 FORMAL PARAMETERS:
1034 1210 1
1035 1211 1     cir      Circuit control block.
1036 1212 1
1037 1213 1 IMPLICIT INPUTS:
1038 1214 1     NONE
1039 1215 1
1040 1216 1 IMPLICIT OUTPUTS:
1041 1217 1     NONE
1042 1218 1
1043 1219 1 ROUTINE VALUE:
1044 1220 1 COMPLETION CODES:
1045 1221 1     NONE
1046 1222 1
1047 1223 1 SIDE EFFECTS:
1048 1224 1     NONE
1049 1225 1
1050 1226 1 --
1051 1227 1
1052 1228 2 BEGIN
1053 1229 2 MAP
1054 1230 2     CIR : REF BBLOCK;
1055 1231 2 LOCAL
1056 1232 2     SID : REF BBLOCK,
1057 1233 2     STATUS;
1058 1234 2
1059 1235 2
1060 1236 2     CIR [CIR$B_SURVEIL] = NMA$C_SUR_DIS;          ! Mark surveillance disabled
1061 1237 2
1062 1238 2     EXECUTE ( $DASSGN (CHAN = .CIR [CIR$W_CHAN]) );    ! Terminate read of System ID's
1063 1239 2
1064 1240 2     !
1065 1241 2     ! Deallocate all the memory used to store system ID messages
1066 1242 2     ! gathered for the circuit
1067 1243 2     !
1068 1244 2     SID = .CIR [CIR$L_SIDFLINK];
1069 1245 2     WHILE .SID NEQ CIR [CIR$L_SIDFLINK] DO
1070 1246 3         BEGIN
1071 1247 3             REMQUE (.SID, STATUS);
1072 1248 3             EXECUTE (CNF$FREE_VM (%REF(SID$C_LENGTH), SID));
1073 1249 3             SID = .CIR [CIR$L_SIDFLINK];
1074 1250 2         END;
1075 1251 2
1076 1252 2     !
1077 1253 2     ! Record time when surveillance was discontinued
1078 1254 2     !
1079 1255 2     EXECUTE ($GETTIM (TIMADR = CIR [CIR$Q_ELAPSDTIM]) );
1080 1256 2
1081 1257 2     RETURN TRUE;
```


CNFREQUES
V04-000

DECnet Ethernet Configurator Module
CNF\$DISABLE_SURVEIL: clean up circuit block en

B 1
16-Sep-1984 02:04:29
14-Sep-1984 12:49:52

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[NICNF.SRC]CNFREQUES.B32;1

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: 1084
: 1085
1259 1 END
1260 0 ELUDOM

! End of module CNFREQUES

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
\$PLITS	352	NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$OWNS	80	NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$CODES	1561	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
-\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	15	0	581	00:01.0
-\$255\$DUA28:[SHRLIB]NET.L32;1	1279	16	1	63	00:00.8
-\$255\$DUA28:[SHRLIB]NMALIBRY.L32;1	887	37	4	47	00:00.8

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:CNFREQUES/OBJ=OBJ\$:CNFREQUES MSRC\$:CNFREQUES/UPDATE=(ENH\$:CNFREQUES)

: Size: 1561 code + 432 data bytes
: Run Time: 00:33.3
: Elapsed Time: 01:01.0
: Lines/CPU Min: 2268
: Lexemes/CPU-Min: 18605
: Memory Used: 213 pages
: Compilation Complete

0279 AH-BT13A-SE
VAX/VMS V4.0

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0280 AH-BT13A-SE
VAX/VMS V4.0

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